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===== PAJ =====

TI - VACUUM CLEANER

AB - PURPOSE: To inform a user that dust containing much water and moisture will cause damage to the title cleaner, and to automatically stop the operation of the title cleaner, by a method wherein a moisture-detecting sensor is provided on the inner wall of a top pipe, and a signal-processing device operated corresponding to the output therefrom, a phase-controlling device and an indicating device are provided.

- CONSTITUTION: A moisture-detecting sensor 23 is located on the inner wall of a top pipe 19, which is positioned on the extension of the center line A in an extension pipe 20. At the inside of a cleaner main body, a signal-processing device 24 having a microcomputer and so on, which processes the output from the moisture-detecting sensor 23, a phase-controlling device 25 for controlling the rotational speed of a motor fan 4, and an indicating device 26, such as a LED or an alarm, which informs a user that the title cleaner is abnormal, are located. In the time of cleaning, moisture sucked by mistake comes into contact with the moisture-detecting sensor 23, and the output from the moisture-detecting sensor 23 is varied. After the signal-processing device 24 decides this output signal, the phase-controlling device 25 automatically stops the motor fan 4 and the indicating device 26 informs the user that the title cleaner is abnormal.

PN - JP4210032 A 19920731

PD - 1992-07-31

ABD - 19921118

ABV - 016548

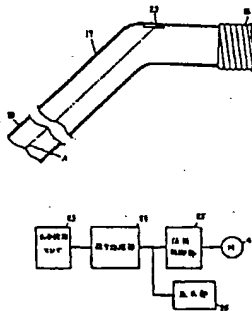
AP - JP19900400123 19901203

GR - C1005

PA - MATSUSHITA ELECTRIC IND CO LTD

IN - TOKUDA TAKESHI

I - A47L9/28



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